Integrating Weather, Climate and Social Studies: Challenges and Opportunities for Librarians

13th Annual
Atmospheric Science Librarians International (ASLI) Conference

Atlanta, Georgia
18-22 January 2010

Monday, January 18, 2010

1:30 pm **Joint Session 8.** Meteorological and Environmental Satellite Observations. From 50 Years Ago..I (Joint between the Meteorological and Environmental Satellite Observing Systems: From 50 Years Ahead, the Eighth Presidential History Symposium, and the 13th Conference of the Atmospheric Science Librarians International)

Cochairs: Dr. Sepideh Yalda, Millersville Univ., Millersville, PA; Philip E. Ardanuy, Raytheon Information Solutions, Reston, VA

1:30 pm J8.1 Meteorological and Environmental Satellite Observing Systems: From 50 Years Ago… Introduction
Phillip E. Ardanuy, J. Phillips, and S. Yelda

1:45 pm J8.2 Satellite Atmospheric Sounding Experiments—An Evolution Beginning with Nimbus-3
William Smith, Sr.

J8.3 The Beginnings of Satellite Meteorology 50 Years Ago
W. Paul Menzel, J. Phillips, and L. Avila

2:30 pm **Break and Formal Poster Viewing**

4:00 pm **Joint Session 9.** Meteorological and Environmental Satellite Observations. From 50 Years Ago…II (Joint between the Meteorological and Environmental Satellite Observing Systems: From 50 Years Ahead, the Eighth Presidential History Symposium, and the 13th Conference of the Atmospheric Science Librarians International)

Cochairs: Jean Phillips, Librarian, Univ. of Wisconsin, Madison, WI; Christopher S. Velden, CIMSS/Univ. of Wisconsin, Madison, WI

4:00 pm J9.1 The World According to GARP: Construction of a Global Meteorology, 1960–1980
Erik M. Conway

4:30 pm J9.2 50 Years of Satellite Observations of Weather and Climate; Some Lessons Learned
Thomas H. Vonder Haar

4:45 pm J9.3 The Evolution of the European Operational Meteorological Satellite Programmes and the Advancement of Applications
Johannes Schmetz

5:00 pm J9.4 NOAA's Environmental Satellite Program: Past, Present, and Future
Gary K. Davis

Tuesday, January 19, 2010

Atmospheric Science 101 Workshop: Update Your Library Skills
9:30 – 3:30 at the Atlanta-Fulton Public Library System
Central Library & Library System Headquarters
One Margaret Mitchell Square, Atlanta, GA 30303

ASLI is sponsoring a free day-long workshop on information sources for everyone working on atmospheric science and climate change topics.

Wednesday, January 20, 2010

8:00 am **Registration**

8:30 am **Welcome Address and Introductions**

Linda Musser
Chair, Atmospheric Science Librarians International (ASLI)
Earth and Mineral Sciences Library
Pennsylvania State University
University Park, PA
Lrm4@psu.edu

8:45 am **Panel Discussion 1: Tech Tools & Tips Panel**

Linda Musser, Moderator

This session will feature short presentations on the latest technology tools and tips as well as highlights of new collections.

World Cat lists - Linda Musser, Librarian, Earth and Mineral Sciences Library, Penn State University, Lrm4@psu.edu
Time & Chaos – Amy Butros, Scripps Institution of Oceanography Library, abutros@ucsd.edu
The David Johnson Collection - Doria Grimes, Contractor, NOAA Central Library (Retired), vdfh39@cox.net

The Verner Suomi Collection - Jean Phillips, Space Science and Engineering Center, University of Wisconsin-Madison, Jean.Phillips@ssec.wisc.edu

10:00 am **Break**

10:30 am **Session 1: Weather and Society**

The overall theme for the AMS Annual Meeting is Weather, Climate and Society. The talks in this session will explore these important issues.

Gene Major, Moderator

1.1 There's a Hurricane in My Library!

Digital media is growing faster than Chinese Bamboo in its 5th year. Dave will discuss some new technologies that can transform the library into a real digital media resource that reaches out to people for enhanced learning opportunities and world-wide collaboration.

Dave Jones
Founder, President & CEO
Stormcenter Communications, Inc.
Catonsville, MD
dave@stormcenter.com

11:30 am **1.2 Weather support to the space program at Cape Canaveral Air Force Station and Kennedy Space Center**

Weather is the leading source of scrubs and delays to space launch from Cape Canaveral Air Force Station and Kennedy Space Center in central Florida, in 'Lightning Alley' of the U.S. Some of the weather impacts on space launch are obvious, such as lightning, thunderstorm winds, and hurricanes. Many weather impacts are not so obvious, such as rocket triggered lightning, cold temperatures, and low altitude winds. The 45th Weather Squadron is the Air Force organization that provides weather support to these facilities. This presentation will review the stringent weather requirements of the space program in Florida and how 45th Weather Squadron supports this exciting mission.

Bill Roeder
Meteorologist, 45th Weather Squadron
Patrick AFB, FL
william.roeder@patrick.af.mil

12:00 pm **Lunch**

1:30 pm **Session2/Joint Session 7: Joint Session with ASLI/History Symposium (Joint between the Eighth Presidential History Symposium and the 13th Conference of Atmospheric Science Librarians International)**

Jean Phillips, Moderator

J7.1 It Was An Uncommonly Hot Summer: Using Weather Observations in Historical Novels and Films.

The Library of Congress receives requests from authors and film-makers for weather observations that will assist them in accurately setting a scene and bringing historical context to a story. Some of these questions can be easily answered with the use of modern climatological data and summaries. On the other hand, some requests can be challenging, especially requests for those times and locations of which no data sets exist. This presentation will share how a science reference librarian at the Library of Congress identifies historical weather observations using the Library of Congress collections of manuscripts, books, newspapers, and digital resources.

Jen Harbster
Digital Reference Specialist
Library of Congress
Washington, D.C.
jehar@loc.gov

1:45 pm

J7.2 Georgia's Incredible Tornado History in Maps and Photographs

Gainesville is a city of approximately 35,000 residents located in Hall County in northeastern Georgia. While Georgia is typically not included in the traditional portrayal of "Tornado Alley," its history with tornadoes is quite remarkable and not well known. Gainesville is where both the 5th and 16th deadliest single tornadoes in U.S. history occurred as well as the most tornado fatalities in a single building. These two events as well as a few more recent strong tornado events will be analyzed. The purpose of this presentation is to illustrate just how amazing the tornado history of this town is, and to document some of the important events using GIS technology to reconstruct tornado paths and historical photographs from existing archives to display the aftermath of these disasters.

Jamie D. Mitchem
Gainseville State College
Gainseville, GA
jmitchem@gsc.edu

2:15 pm

J7.3 NOAA's Climate Database Modernization Program – A Decade of Data Rescue and Modernization Activities

The Climate Database Modernization Program (CDMP) supports NOAA's mission to collect, integrate, assimilate and effectively manage Earth observations on a global scale, ranging from atmospheric, weather, and climate observations to oceanic, coastal, and marine life observations. Many of NOAA's holdings were originally recorded on paper, film, and other fragile media, and stored at various facilities. CDMP's mission includes transforming these older observations to a more useful friendly and accessible digital media, which will help meet the predicted demand for additional scientific baseline observations. Millions of pieces of data are still waiting to be digitized, the scientific community depends on the on-going work of CDMP to ensure that the hard-earned, irreplaceable research is protected, preserved and made available on-line. CDMP partners with four private sector contractors and has placed online over 53 million weather and environmental images, available to researchers

around the world via the Internet. The amount of data online has grown from 1.75 terabytes in 2001 to over 11 terabytes in 2009. This presentation will highlight various NOAA national and international data rescue projects under the CDMP program.

Thomas F. Ross
NOAA/NESDIS/National Climatic Data Center
Asheville, NC
tom.ross@noaa.gov

2:30 pm **Break and Formal Poster Viewing**

4:00 pm **Session 3: Information Resources and Knowledge Collaboration**

Robert Tolliver, Moderator

3.1: Out of the Basement: Bringing to Light Hidden Collections at the NCAR Archives

In 2009, both the Association of Research Libraries (ARL) and the Council on Library and Information Resources (CLIR) issued a call for Archives and Special Collections departments to address the problem of backlogs and hidden collections that are virtually unknown and inaccessible to patrons and scholars with the ultimate goal of improving access to such collections. The National Center for Atmospheric Research archives and library staff are implementing open source collections management software to provide access to our hidden collections, many of which document significant advances in the atmospheric sciences. Coupled with the More Product Less Processing (MPLP) strategies, the NCAR Archives is working to provide transparency to its archival holdings, both processed and unprocessed, via the Web. By providing unprecedented access to the majority of NCAR's archival collections, user demand for materials will inform collections processing priorities and resource allocation for detailed processing, an approach that focuses on the needs of our users.

Kate Legg
Archivist
National Center for Atmospheric Research (NCAR)
Boulder, CO
klegg@ucar.edu

4:15 pm **3.2 Madrigal Database**

The Madrigal database was developed here at Haystack Observatory and continues to be maintained as an open source project of a way to share upper atmospheric data. It includes data from instruments all around the world. The CEDAR database grew out of the Madrigal project. The Madrigal database is freely available, and is a great worldwide science cooperative venture.

Madeleine Needles
Librarian
Haystack Observatory, Massachusetts Institute of Technology
Westford, MA

4:30 pm **3.3 Rethinking Collection Development in Disaster Mental Health: An 'All Hazards' Model**

The connection between weather and mental health is bound up in acute and long-term care and treatment of suddenly vulnerable populations, whether they are in-place survivors, displaced persons, or refugees. The Louis de la Parte Florida Mental Health Institute (FMHI) Research Library/ University of South Florida Library System has undertaken a collection focus on disaster mental health. We re-examined the traditional models of collection development and chosen instead to frame our collection development initiative around an 'all hazards' model, that allows us to proceed within both a national and international framework. The scope of the collection includes titles pertaining to the nature, causes, prevention, mitigation of and response to different types of disaster threats, with a particular focus on their psychosocial aspects. It also includes the nature, causes, prevention, mitigation of and response to mental, emotional, health-related and behavioral conditions that are associated with or arise from disaster events and their affected populations as well as research, measurement and analytic methods for studying them.

Ardis Hanson, Librarian
The Louis de la Parte Florida Mental Health Institute (FMHI) Research Library
University of South Florida
Tampa, FL
hanson@fmhi.usf.edu

4:45 pm **ASLI Sessions end for the day**

4:45 pm **ASLI's Choice Book Awards**
Presentation at ASLI Booth in Exhibit Hall

6:30 pm **Annual ASLI Dinner**
Max Lager's Wood Fired Grill & Brewery (320 Peachtree St. NW, 1 block North of Hyatt Regency). $39.95
Contact Gene Major (Eugene.R.Major@nasa.gov for reservations and details)

Thursday, January 21, 2010

8:15 am **Panel Discussion 2: Data Curation: Do you know where your dataset is?**

This session will feature short presentations on the role of data and data curation in the publishing industry. Scientists are increasingly requesting access to data used in the publication of articles and authors are particularly interested in citing their data. This session will feature representatives from the major meteorological publishing industry and information professionals on the front lines of requests for this type of access.

Mary Marlino, NCAR, Moderator

Jon Sears, Publications, American Geophysical Union, jsears@agu.org

Linda Musser, Librarian, Earth and Mineral Sciences Library, Penn State University, lrm4@psu.edu
Steve Worley, NCAR, Boulder, CO, worley@ucar.edu

9:15 am **Session 4: Open Access**

4.1 The Open Access Movement: Background and Outlook

The Open Access (OA) movement is a fast-growing, international effort by libraries, academic institutions, and scholarly communities to provide free, online access to research and other scholarly materials. The movement has arisen in response to the rapid evolution of online communication technologies and the related acceleration of the pace of scientific discourse, as well as to recent increases in journal subscription prices

Jamaica Jones, Special Projects Librarian, NCAR, Boulder, CO

9:45 am **Break**

10:15 am **Session 5: Updates**

5.1 AMS Publishing Review of 2009

Ken Heideman, Director of Publications, AMS, Boston, MA

11:00 am **5.2 ProQuest Update: New Features (MGA) and Products (AtmosPeer)**

Chris Readinger, Editor, MGA, ProQuest

Gerry Sawchuk, Publisher, Natural Sciences, ProQuest

12:00 pm **Lunch**

1:30 pm **Session 6: Vendor Updates**

6.1 AGU Update

Karine Blaufuss, Marketing and Membership Group Manager, AGU

2:15 pm **6.2 Wiley Blackwell Update**

Fiona Murphy, Wiley Blackwell

3:00 pm **Break**

3:30 pm **ASLI Business Meeting**
All conference attendees are encouraged to participate